ABSTRACT OF THE DISCLOSURE

A color-to-temperature converter senses temperatures of a device, translates the temperatures into light of different colors, and emits or displays the light. The color-to-temperature converter includes a tri-color light emitting diode (LED) assembly with inputs corresponding to red, green, and blue monochromatic LEDs within the assembly. The processor of the converter separately controls the intensity of each monochromatic LED of the assembly, and the outputs of the monochromatic LEDs converge to appear as one color to an observer. In typical operation, the relationship between the temperature input and the converged color imparts to the observer an intuitive understanding of the consequences of the sensed temperatures to operation of the device whose temperatures the converter monitors.